

5

**METHODS OF PROVIDING DATA SERVICES
OVER DATA NETWORKS AND RELATED DATA NETWORKS, DATA
SERVICE PROVIDERS, ROUTING GATEWAYS
AND COMPUTER PROGRAM PRODUCTS**

10

Abstract

A data network may be operated between a routing gateway for a subscriber and a data service provider providing a data service. More particularly, the data network may receive from the data service provider an identification of the routing 15 gateway, an identification of the data service provider, and data flow characteristics of the data service for a session of the routing gateway using the data service provided by the data service provider. Responsive to receiving the identification of the routing gateway, the identification of the data service provider, and the data flow characteristics for the data service, the data flow characteristics of the data service for the routing gateway may be saved at the data network and forwarded to the routing 20 gateway. Related data networks, data service providers, routing gateways, and computer program products are also discussed.